CYP4A11/CYP4F2-IN-1

Cat. No.: HY-151809

CAS No.: 502654-40-2

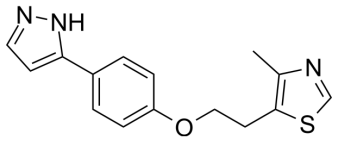
Molecular Formula: $C_{15}H_{15}N_3OS$

Molecular Weight: 285.36

Target: Cytochrome P450

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (438.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5043 mL	17.5217 mL	35.0435 mL
	5 mM	0.7009 mL	3.5043 mL	7.0087 mL
	10 mM	0.3504 mL	1.7522 mL	3.5043 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CYP4A11/CYP4F2-IN-1 is a potent dual inhibitor of cytochrome P450 (CYP) 4A11 and CYP4F2, with IC_{50}s of 19 nM and 17 nM, respectively. CYP4A11/CYP4F2-IN-1 has potential for the research of renal diseases[1].

IC_{50} & Target

CYP4A11	CYP4F2
19 nM (IC_{50})	17 nM (IC_{50})

In Vitro

CYP4A11/CYP4F2-IN-1 (compound 2) inhibits 20-Hydroxyeicosatetraenoic acid (20-HETE) production from arachidonic acid in human renal microsomes, with an IC_{50} of 4.2 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kawamura M, et, al. Discovery of Novel Pyrazolylpyridine Derivatives for 20-Hydroxyeicosatetraenoic Acid Synthase Inhibitors with Selective CYP4A11/4F2 Inhibition. J Med Chem. 2022 Nov 10;65(21):14599-14613.

Caution: Product has not been fully validated for medical applications. For research use only.

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